

RF AMPLIFIER

MODEL *TM6607*

Available as: TM6607, 4 Pin TO-8 (T4)
 TN6607, 4 Pin Surface Mount (SM3)
 FP6607, 4 Pin Flatpack (FP4)
 BX6607, Connectorized Housing (H1)

Features

- Medium Gain: 15 dB Typical
- Medium Output Power: +14.5 dBm Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +40 (Typ.)
 Second Order Two Tone Intercept Point +34 (Typ.)
 Third Order Two Tone Intercept Point +24 (Typ.)

Specifications

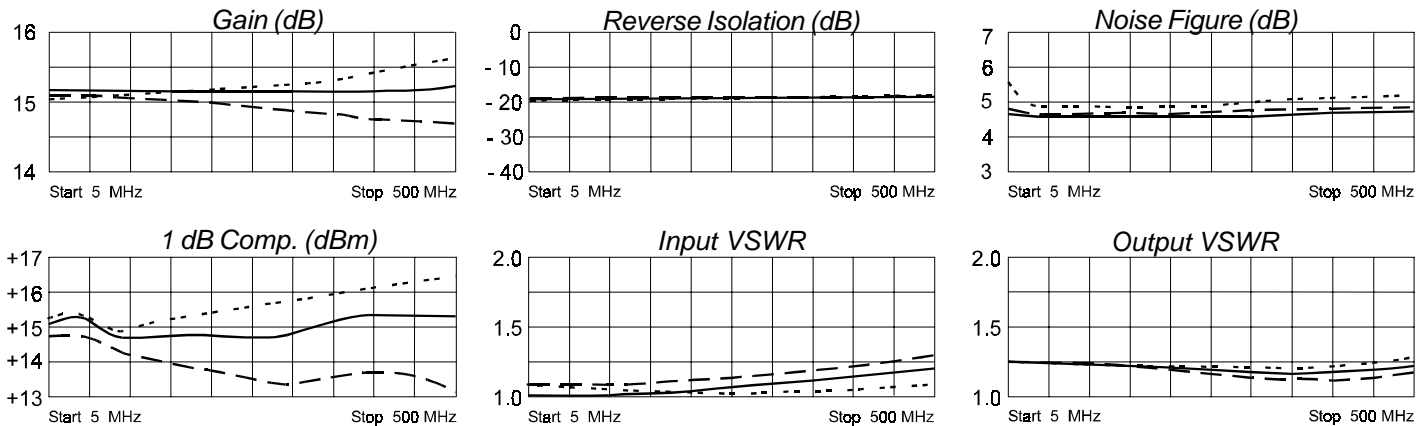
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 500 MHz	5 - 500 MHz
Gain (dB)	15	14.0 Min.
Power @ 1 dB Comp. (dBm)	+14.5	+12.5 Min.
Reverse Isolation (dB)	- 19	- 18 Max.
VSWR In	<1.25:1	2.0:1 Max.
VSWR Out	<1.25:1	2.0:1 Max.
Noise figure (dB)	<5.0	6.0 Max.
Power Vdc	+24	+24
mA	50	54 Max.

Note: Care should always be taken to effectively ground the case of each unit.

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 26 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 50 Milliwatts
 (1 Minute Max.)
 Maximum Peak Power 0.5 Watt
 (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -55 °C

Linear S-Parameters

FREQ. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.03	-147	5.74	-178	.09	-168	.09	109
50	.02	177	5.74	171	.10	177	.09	108
100	.02	179	5.74	161	.09	170	.12	88
200	.00	-128	5.71	143	.10	158	.19	65
300	.03	- 83	5.70	124	.10	135	.30	34
400	.05	-100	5.73	104	.10	114	.35	4
500	.10	-118	5.75	84	.11	92	.28	- 30
600	.14	-138	5.74	62	.11	66	.09	- 75



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